



Water-Data Report 2008

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°58'12", long 74°41'04" referenced to North American Datum of 1983, Pemberton Borough, Burlington County, NJ, Hydrologic Unit 02040202, on right bank at downstream side of bridge on Hanover Street (County Route 616) in Pemberton, 1,000 ft south of intersection of Hanover Street and Elizabeth Street in Pemberton, and 12 mi upstream from confluence with South Branch Rancocas Creek.

DRAINAGE AREA.--118 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1921 to current year.

REVISED RECORDS.--WSP 1302: 1922-23. WSP 1382: 1933. WDR NJ-82-2: Drainage area. WDR NJ-05-01: 2004(M).

GAGE.--Water-stage recorder above concrete dams. Datum of gage is 31.19 ft above NGVD of 1929. Prior to Jun 9, 1923, nonrecording gage. Jun 9, 1923 to Aug 9, 1951, water-stage recorder at site 600 ft downstream at datum 6.54 ft lower.

REMARKS.--Records good, except estimated daily discharges, which are fair. Flow regulated occasionally by cranberry bogs and ponds above station. Water diverted for water supply upstream from gage. Several measurements of water temperature were made during the year. Satellite gage-height telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 9	2130	*434	*2.22

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

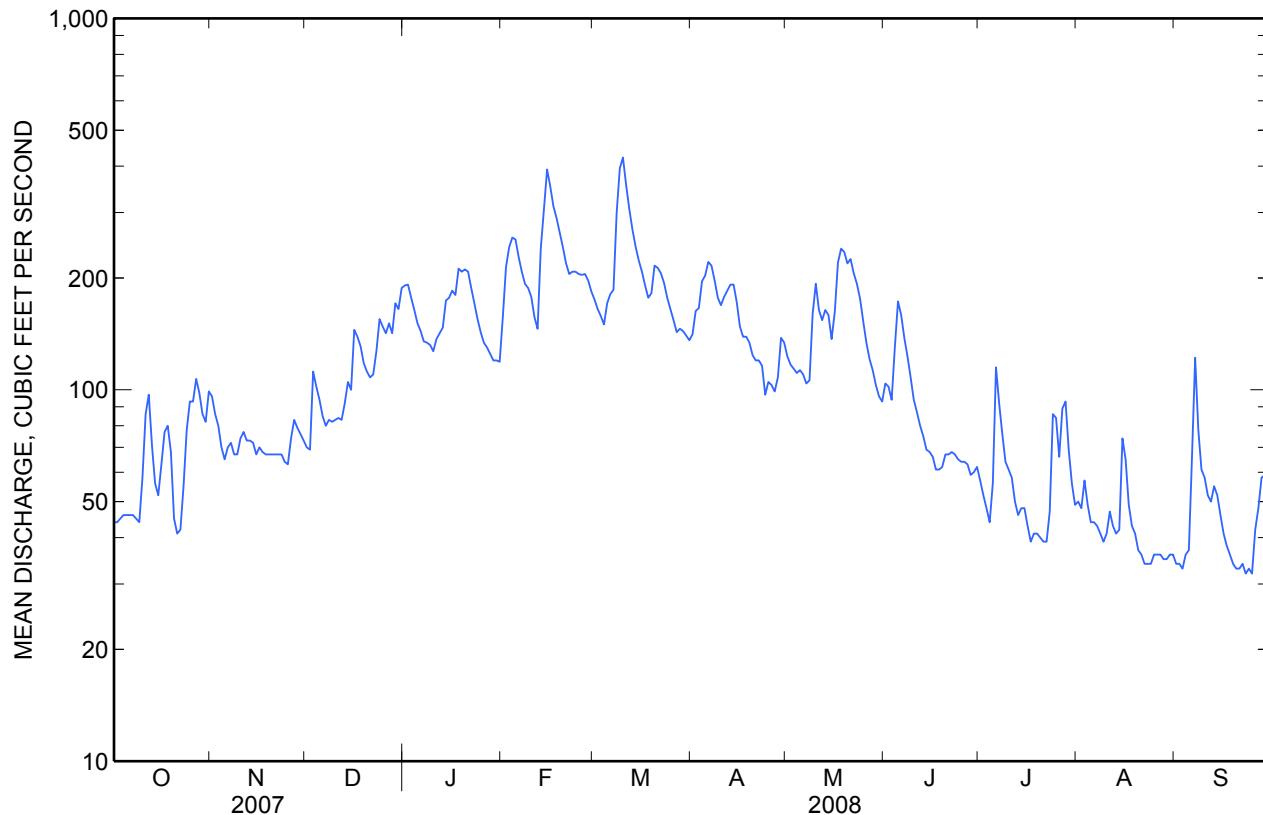
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	44	96	70	191	157	175	141	123	104	57	50	34
2	44	86	69	192	214	165	163	117	102	52	48	34
3	45	80	112	177	242	158	166	114	94	48	57	33
4	46	70	102	164	257	150	196	111	130	44	49	36
5	46	65	94	151	254	171	203	113	173	56	44	37
6	46	70	e85	144	228	181	221	110	159	115	44	66
7	46	72	e80	135	208	186	216	104	138	92	43	122
8	45	67	83	134	193	299	197	106	123	76	41	78
9	44	67	82	132	188	395	177	160	108	64	39	61
10	58	74	83	127	178	422	169	193	94	61	41	58
11	86	77	84	137	157	356	178	164	87	58	47	52
12	97	73	83	142	146	307	185	154	80	50	43	50
13	71	73	92	147	240	270	192	164	75	46	41	55
14	56	72	105	174	306	243	192	159	69	48	42	52
15	52	67	100	177	392	223	172	137	68	48	74	46
16	63	70	145	185	353	208	148	162	66	43	65	41
17	77	68	139	180	312	191	139	220	61	39	49	38
18	80	67	131	212	290	177	139	240	61	41	43	36
19	68	67	118	208	265	182	134	235	62	41	41	34
20	45	67	112	211	242	216	124	219	67	40	37	33
21	41	67	108	208	219	213	120	225	67	39	36	33
22	42	67	110	188	205	206	120	206	68	39	34	34
23	55	67	127	171	208	194	116	193	67	47	34	32
24	78	64	155	155	208	177	97	176	65	86	34	33
25	93	63	148	143	205	165	105	153	64	84	36	32
26	93	74	142	134	204	154	103	134	64	66	36	42
27	107	83	151	130	205	143	99	121	63	89	36	48
28	98	79	142	125	197	146	108	113	59	93	35	58
29	86	76	171	120	184	144	138	103	60	69	35	59
30	82	73	165	120	---	140	134	96	62	56	36	51
31	99	---	188	119	---	136	---	93	---	49	36	---
Total	2,033	2,161	3,576	4,933	6,657	6,493	4,592	4,718	2,560	1,836	1,326	1,418
Mean	65.6	72.0	115	159	230	209	153	152	85.3	59.2	42.8	47.3
Max	107	96	188	212	392	422	221	240	173	115	74	122
Min	41	63	69	119	146	136	97	93	59	39	34	32
Cfsm	0.56	0.61	0.98	1.35	1.95	1.78	1.30	1.29	0.72	0.50	0.36	0.40
In.	0.64	0.68	1.13	1.56	2.10	2.05	1.45	1.49	0.81	0.58	0.42	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	119	152	173	200	214	246	238	191	141	121	127	115
Max	365	430	434	479	445	472	475	475	297	401	426	341
(WY)	(1928)	(1973)	(1973)	(1979)	(1939)	(1994)	(1984)	(1998)	(1968)	(1938)	(1958)	(1971)
Min	38.7	45.7	47.1	62.1	57.1	88.5	85.4	72.0	54.1	36.6	35.6	36.5
(WY)	(1923)	(1923)	(1999)	(1981)	(2002)	(2002)	(1985)	(1992)	(1995)	(1999)	(1995)	(1995)

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008		Water Years 1922 - 2008	
Annual total	59,345	42,303			
Annual mean	163	116		170	
Highest annual mean				286	1978
Lowest annual mean				69.0	2002
Highest daily mean	1,410	Apr 17	422	Mar 10	1,690 Aug 21, 1939
Lowest daily mean	41	Oct 21	32	Sep 23, 25	9.0 Sep 29, 1932
Annual seven-day minimum	44	Sep 27	33	Sep 19	27 Oct 2, 1922
Maximum peak flow			434	Mar 9	2,040 Jul 14, 2004
Maximum peak stage			2.22	Mar 9	4.19 Jul 14, 2004
Instantaneous low flow			30	Aug 14	9.0 Sep 29, 1932
Annual runoff (cfsm)	1.38		0.980		1.44
Annual runoff (inches)	18.71		13.34		19.52
10 percent exceeds	317		208		310
50 percent exceeds	123		97		140
90 percent exceeds	58		41		61



01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD--1923-25, 1958, 1960-71, 1974-97, 2000-01, 2005, 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status and Trace Element Assessment (303d) special study site, NJ Department of Environmental Protection Watershed Management Area 19. Samples on Jan 7, Mar 26, and June 25 were for the Trace Element Assessment (303d).

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, suspended residue, ammonia-plus-organic nitrogen in bed sediment, and phosphorus in bed sediment were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Turbidity	UV	UV	Baro-	Dis-	Dis-	pH,
			white light, det ang 90+/-30 corrctd	absorb- ance, 254 nm, wat flt	absorb- ance, 280 nm, wat flt				water, unfltrd field, std units (00400)
N	NTRU (63676)	/cm (50624)	/cm (61726)	mm Hg (00025)	mg/L (00300)	(00301)	(00400)		
Dec									
05...	0900	Surface water, regular	2.4	.191	.148	758	11.5	88	5.2
Jan									
07...	0700	<i>QC - Artificial, field blank</i>	--	--	--	--	--	--	--
07...	0800	Surface water, regular	2.0	--	--	768	11.7	89	5.1
Mar									
06...	0800	Surface water, regular	2.1	.289	.219	768	9.7	83	5.0
26...	1100	Surface water, regular	1.8	--	--	764	10.4	88	4.7
May									
29...	0800	Surface water, regular	3.2	.345	.269	769	7.1	74	5.2
Jun									
25...	0830	<i>QC - Artificial, field blank</i>	--	--	--	--	--	--	--
25...	0900	Surface water, regular	4.9	--	--	768	6.9	77	5.8
Aug									
12...	0730	Surface water, regular	3.7	.272	.216	758	6.8	74	6.2

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Specific conductance, wat unf $\mu\text{S}/\text{cm}$		Temper-ature, air, deg C		Temper-ature, water, deg C		Hard-ness, water, mg/L as CaCO ₃		Magnes-ium, water, mg/L		Potas-sium, water, mg/L		Sodium, water, mg/L		ANC, wat unf	
	25 degC (00095)	(00020)	(00010)	(000900)	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(00955)	(00955)	
Dec 05...	73	-1.5	4.2	11	2.60	1.14	1.65	6.56	<1.7	11.3	<.12	6.2	11.0			
Jan 07...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07...	100	10.1	3.7	--	--	--	--	--	--	--	--	--	--	--	--	
Mar 06...	70	1.5	8.3	10	2.37	.997	.99	6.06	<1.7	10.0	<.12	4.6	10.8			
26...	62	13.1	8.1	--	--	--	--	--	--	--	--	--	--	--	--	
May 29...	58	19.0	18.1	8	1.84	.801	1.12	5.44	<1.7	9.12	<.12	4.1	6.72			
Jun 25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
25...	67	22.5	21.7	--	--	--	--	--	--	--	--	--	--	--	--	
Aug 12...	74	18.5	19.5	12	2.82	1.10	1.65	7.31	2.8	12.2	<.12	4.9	7.90			

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Residue water, filtrd, sum of constituents	Residue on evap. 180degC wat flt	Residue total non-filterable, mg/L	Ammonia + org-N, mg/L as N		Nitrate + nitrite, mg/L as N		Partic-ulate water, susp., mg/L	Total nitro- gen, water, mg/L	Total nitro- gen, unfiltrd water, mg/L	Ortho-phosphate, water, mg/L as P	Phos- phorus, water, mg/L as P	Phos- phorus, unfiltrd water, mg/L as P	Total carbon, suspnd sediment, mg/L
	(70301)	(70300)	(00530)	(00623)	(00608)	(00631)	(00631)	(49570)	(00602)	(00600)	(00671)	(00666)	(00665)	(00694)
Dec 05...	--	45	1	.46	.049	.08	.06	.54	.60	<.010	.018	.036	.8	
Jan 07...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 06...	--	42	3	.22	.022	.10	.05	.32	.37	E.005	.011	.020	.6	
26...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
May 29...	--	45	5	.26	.037	.07	.13	.33	.46	E.007	E.007	.052	1.7	
Jun 25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 12...	E40	49	3	.28	.028	.12	.09	.40	.49	E.003	.024	.049	1.4	

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Inor-gan-ic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recover-able, µg/L (01007)	Beryll-ium, water, unfltrd recover-able, µg/L (01012)	Boron, water, unfltrd recover-able, µg/L (01020)	Boron, water, unfltrd recover-able, µg/L (01022)	Cadmium, water, unfltrd recover-able, µg/L (01027)	Chrom-ium, water, unfltrd recover-able, µg/L (01034)	Copper, water, unfltrd recover-able, µg/L (01042)	Iron, water, unfltrd recover-able, µg/L (01045)
Dec 05...	<.04	.8	4.3	--	--	--	--	15	--	--	--	--	--
Jan 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 06...	<.04	.6	6.5	.26	E.36	32.6	.07	13	13	.12	.51	1.9	596
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 29...	<.04	1.7	7.7	--	--	--	--	14	--	--	--	--	--
Jun 25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 12...	<.04	1.4	5.3	.52	.65	33.3	.05	16	15	.05	.62	2.0	1,900

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Mangan-e, Lead, water, unfltrd recover-able, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Mercury, water, unfltrd recover-able, µg/L (01055)	Nickel, water, unfltrd recover-able, µg/L (71900)	Selen-ium, water, unfltrd recover-able, µg/L (01067)	Silver, water, unfltrd recover-able, µg/L (01147)	Zinc, water, unfltrd recover-able, µg/L (01092)
Dec 05...	--	--	--	--	--	--	--
Jan 07...	<.08	--	--	--	--	--	--
07...	1.16	33.6	--	--	--	--	--
Mar 06...	--	2.45	28.1	<.010	1.2	.11	<.02
26...	1.82	2.30	--	--	--	--	--
May 29...	--	--	--	--	--	--	--
Jun 25...	<.08	--	--	--	--	--	--
25...	2.52	3.55	--	--	--	--	--
Aug 12...	--	2.78	17.3	<.010	.81	.12	<.02
							6.7

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 7

[Remark codes: <, less than; E, estimated.]

Date	1-Naph-thol, water, 0.7u GF μg/L (49295)	2,6-Di-ethyl-aniline, water, 0.7u GF μg/L (82660)	2Chloro- -2',6'-diethyl acetanilide CIAT, wat flt μg/L (61618)	2-Ethyl -6-methyl-chloro-aniline water, fltrd, μg/L (04040)	3,4-Di-chloro-aniline water, fltrd, μg/L (61620)	3,5-Di-chloro-aniline water, fltrd, μg/L (61625)	4-Chloro- 2methyl-phenol, water, fltrd, μg/L (61627)	Aceto-chlor, water, fltrd, μg/L (61633)	Ala-chlor, water, fltrd, μg/L (49260)	alpha-Endosulfan, water, fltrd, μg/L (46342)	Atra-zine, water, fltrd, μg/L (34362)	Azin-phos-methyl oxon, water, fltrd, μg/L (39632)	Azin-phos-methyl oxon, water, fltrd, μg/L (61635)
May 29...	<.04	<.006	<.010	E.007	<.010	<.006	<.008	<.005	<.006	<.006	<.006	.008	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 7

[Remark codes: <, less than; E, estimated.]

Date	Azin-phos-methyl, water, 0.7u GF μg/L (82686)	Ben-flur-alin, water, 0.7u GF μg/L (82673)	Car-baryl, water, 0.7u GF μg/L (82680)	Carbo-furan, water, 0.7u GF μg/L (82674)	Chlor-pyrifos oxon, water, 0.7u GF μg/L (61636)	Chlor-pyrifos water, fltrd, μg/L (38933)	Chlor-pyrifos water, fltrd, μg/L (82687)	cis-Per-methrin water, 0.7u GF μg/L (79846)	cis-Propi-conazole, water, fltrd, μg/L (79846)	Cyana-zine, water, fltrd, μg/L (04041)	Cyflu-thrin, water, fltrd, μg/L (61585)	Iambda-Cyhalothrin, water, fltrd, μg/L (61595)	Cyper-methrin, water, fltrd, μg/L (61586)	DCPA, water, fltrd, μg/L (82682)
May 29...	<.120	<.010	E.046	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 7

[Remark codes: <, less than; E, estimated.]

Date	Desulf- inylfipro- nil, water, fltrd, μg/L (62170)	Diazi-non, water, fltrd, μg/L (39572)	Dicro-tophos, water, fltrd, μg/L (38454)	Diel-drin, water, fltrd, μg/L (39381)	Dimeth-oate, water, 0.7u GF μg/L (82662)	Disulf-oton, sulfone water, fltrd, μg/L (61640)	Disul-foton, water, 0.7u GF μg/L (82677)	Endo-sulfan, sulfate water, fltrd, μg/L (61590)	EPTC, water, 0.7u GF μg/L (82668)	Ethion, monoxon water, fltrd, μg/L (61644)	Ethion, water, fltrd, μg/L (82346)	Etho-prop, water, fltrd, μg/L (82672)	Fenami-phos- sulfone water, fltrd, μg/L (61645)
May 29...	<.012	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

[Remark codes: <, less than; E, estimated.]

Date	Fenami-phos sulf- oxide, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl- fipro- nil nil sulfide water, amide, wat flt μg/L (62169)	Fipro-nil sulfone water, water, fltrd, μg/L (62167)	Fipro-nil sulfone water, water, fltrd, μg/L (62168)	Fipro-nil Fonofos water, water, fltrd, μg/L (62166)	Hexa-zinone, water, water, fltrd, μg/L (04095)	Ipro-dione, water, water, fltrd, μg/L (04025)	Isofen-phos, water, water, fltrd, μg/L (61593)	Mala-oxon, water, water, fltrd, μg/L (61594)	Mala-thion, water, water, fltrd, μg/L (61652)	Metaxyl, water, water, fltrd, μg/L (39532)	Metaxyl, water, water, fltrd, μg/L (61596)
May 29...	<.20	<.03	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

[Remark codes: <, less than; E, estimated.]

Date	Methid-athon, water, fltrd, μg/L (61598)	Methyl para-thion, water, fltrd, μg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF (82667)	Metola-chlor, water, fltrd, μg/L (39415)	Metri-buzin, water, fltrd, μg/L (82630)	Moli-nate, water, fltrd, 0.7u GF (82671)	Myclo-butanol water, fltrd, μg/L (61599)	Oxy-fluor-fen, water, fltrd, μg/L (61600)	Pendi-methalin, water, fltrd, 0.7u GF (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate water, fltrd, 0.7u GF (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet water, fltrd, μg/L (61601)
May 29...	<.004	<.01	<.008	E.008	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

[Remark codes: <, less than; E, estimated.]

Date	Prome-ton, water, fltrd, μg/L (04037)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF (82676)	Propy-zamide, water, fltrd, 0.7u GF (82679)	Propanil, water, fltrd 0.7u GF	Propar-gite, water, fltrd 0.7u GF	Simazine, water, fltrd 0.7u GF	Tebu-thiuron water, fltrd 0.7u GF	Teflu-thrin, water, fltrd 0.7u GF	Terbufos sulfone water, fltrd 0.7u GF	Terbu-fos, water, fltrd 0.7u GF	Terbutyl-azine, water, fltrd 0.7u GF	Thio-bencarb water, fltrd 0.7u GF	trans-Propi-conazole, water, fltrd μg/L (79847)
May 29...	<.01	<.006	<.004	<.006	<.04	<.006	<.02	<.003	<.04	<.04	<.02	<.01	<.010	<.02

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008

Part 7 of 7

[Remark codes: <, less than; E, estimated.]

Date	Tri-	flu-	Di-
	tribu-	alin,	chlor-
	phos,	water,	vos,
	water,	filtrd	water,
	filtrd,	0.7u GF	filtrd,
	µg/L	µg/L	µg/L
	(61610)	(82661)	(38775)

May			
29...	<.035	<.009	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 4

[Remark codes: <, less than; E, estimated.]

Date	Time	Ammonia		Phos-		Inor-		Chrom-		Lead,			
		pH	org-N, bed sedimnt std units	+ bed bed sed total, mg/kg	phorus, bed sedimnt total, mg/kg	Total carbon, bed sedimnt total, mg/kg	Inorganic carbon, bed sedimnt total, g/kg	Arsenic bed recover -able, ug/g	Cadmium bed recover -able, ug/g	ium, bed sedimnt recover -able, ug/g	Cobalt bed recover -able, ug/g	Copper, bed recover -able, ug/g	Iron, bed sedimnt total digest, ug/g
Aug 12...	0900	6.39	90	380	2.9	<.2	.5	.020	7.9	.4	3	6,100	10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 4

[Remark codes: <, less than; E, estimated.]

Date	Mangan-		Sele-		1,2-Di-		1,6-Di-		1Methyl		1-		236Tri-		2,6-Di-		2-Ethy	
	ese,	Mercury	Nickel,	rium,	Zinc,	methyl-	methyl-	-9H-	naphth-	phenan-	1-Methyl-	Methyl-	naphth-	methyl-	naphth-	alene,	naphth-	alene,
	bed	bed	bed	bed	bed	naphth-	naphth-		alene,	ene,	pyrene,	pyrene,	alene,	naphth-	alene,	alene,	naphth-	alene,
	sedimnt	sedimnt	sedimnt	sedimnt	sedimnt	alene,	alene,		alene,	ene,	bed sed	bed sed	bed sed	alene,	alene,	bed sed	alene,	bed sed
	recover	recover	recover	recover	recover	bed sed	bed sed		bed sed	bed sed	<2 mm,	<2 mm,	<2 mm,	bed sed	<2 mm,	bed sed	<2 mm,	bed sed
	-able,	-able,	-able,	-able,	-able,	<2 mm,	<2 mm,		<2 mm,	<2 mm,	wsv nat	wsv nat	<2 mm,	bed sed	<2 mm,	bed sed	<2 mm,	bed sed
	ug/g	ug/g	ug/g	ug/g	ug/g	ug/kg	ug/kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	(01053)	(71921)	(01068)	(64848)	(01093)	(49403)	(49404)		(49398)	(49398)	(49410)	(49388)	(49405)	(49406)	(49948)			

Aug 12...	9.9	<.007	1.3	<.1	7.2	E1	E4	E3	E20	E19	E1	E6	E2
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01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 4

[Remark codes: <, less than; E, estimated.]

Date	2-Methyl-anthra-cene, bed sed <2 mm, bs ug/kg (49435)	4H-Cyclo-penta-fluor-ene, bed sed <2 mm, threne, <2 mm, bs <2mm ug/kg (49411)	9H-Fluor-naphth-ene, bed sed <2 mm, <2 mm, wsv nat ug/kg (49399)	Ace-naphth-ylene, bed sed <2 mm, <2 mm, wsv nat ug/kg (49429)	Ace-naphth-ylene, bed sed <2 mm, wsv nat ug/kg (49428)	Anthra-cene, bed sed <2 mm, field, wsv nat ug/kg (49434)	Benzene, [a]-anthra-cene, bed sed <2 mm, bed sed ug/kg (49436)	Benzene, [a]-pyrene, bed sed <2 mm, wsv nat ug/kg (49389)	Benzene, [b]-fluor-anthene, bed sed <2 mm, bed sed ug/kg (49458)	Benzene, [b]-peryl-anthene, bed sed <2 mm, bed sed ug/kg (49408)	Benzene, [g,h]-fluor-anthene, bed sed <2 mm, bed sed ug/kg (49397)	Benzene, [k]-fluor-anthene, bed sed <2 mm, field, wsv nat ug/kg (49450)	Chrysene, bed sed <2 mm, bed sed ug/kg (49461)	Dibenzanthracene, bed sed <2 mm, bed sed ug/kg
Aug 12...	E10	E18	E11	E6	E20	E24	55	73	77	E100	E32	61	<50	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 4

[Remark codes: <, less than; E, estimated.]

Date	Fluor-anthene, bed sed <2 mm, wsv nat ug/kg (49466)	Indeno-[1,2,3-cd]pyrene, bed sed <2 mm, bed sed ug/kg (49390)	Iso-phorone, bed sed <2 mm, wsv nat ug/kg (49400)	Naphthalene, bed sed <2 mm, bed sed ug/kg (49402)	p-PCBs, bed sed <2 mm, wsv nat ug/kg (39519)	Cresol, bed sed <2 mm, wsv nat ug/kg (49451)	Phenanthrene, bed sed <2 mm, wsv nat ug/kg (49409)	Phenanthrene, bed sed <2 mm, wsv nat ug/kg (49393)	Phenanthrene, bed sed <2 mm, wsv nat ug/kg (49387)	Pyrene, bed sed <2 mm, wsv nat ug/kg (49387)	Sediment, dry svd sve dia percent <62.5um (80164)	Bed sediment, sve dia percent <62.5um (80164)	
Aug 12...	120	E77	<50	E10	<5.00	<50	100	<50	130	.8			